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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 06/11/2009

Bryan A. Santarelli GRAYBEAL JACKSON HALEY LLP Suite 350 155 - 108th Avenue NE Bellevue, WA 98004-5901

EXAMINER				
VASUDEVA, AJAY				
ART UNIT	PAPER NUMBER			

3617

DATE MAILED: 06/11/2009

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
Ī	10/712,777	11/12/2003	Terrence W. Schmidt	1934-7-3	7411

TITLE OF INVENTION: MISSION MODULE SHIP DESIGN

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/11/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

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appropriate. All further indicated unless correct maintenance fee notification	correspondence including ed below or directed other tions.	ng the Patent, advance of herwise in Block 1, by (	orders and notification of r (a) specifying a new corres	pondence address	vill be ; and/oi	mailed to the current (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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155 - 108th Ave Bellevue, WA 9							(Depositor's name)
Believae, Willy	0001 5701						(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/712,777	11/12/2003	-	Terrence W. Schmidt			1934-7-3	7411
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	09/11/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS				
VASUDE	VA, AJAY	3617	114-258000				
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> </ol>			(1) the names of up to or agents OR, alternation (2) the name of a single registered attorney or a 2 registered patent attorney or a 3 registered attorney or 3 regi	or printing on the patent front page, list the names of up to 3 registered patent attorneys gents OR, alternatively, the name of a single firm (having as a member a stered attorney or agent) and the names of up to gistered patent attorneys or agents. If no name is d, no name will be printed.			
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Comp	tified below, no assignee	THE PATENT (print or type data will appear on the port a substitute for filing an (B) RESIDENCE: (CITY)	atent. If an assign assignment. and STATE OR C	COUNT	TRY)	
Please check the appropri	riate assignee category or	r categories (will not be p	rinted on the patent):	Individual 🖵 Co	orporati	on or other private gro	up entity 🔲 Government
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted)			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  A check is enclosed.  Payment by credit card. Form PTO-2038 is attached.				
Advance Order -	# of Copies		The Director is hereby overpayment, to Depo	authorized to char sit Account Numb	ge the	required fee(s), any def (enclose ar	iciency, or credit any extra copy of this form).
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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

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75	590 06/11/2009		EXAM	IINER	
Bryan A. Santarelli			VASUDEVA, AJAY		
GRAYBEAL JAC	KSON HALEY LLP	ART UNIT	PAPER NUMBER		
Suite 350 155 - 108th Avent Bellevue, WA 980			3617 DATE MAILED: 06/11/200	9	

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
Notice of Allowability	10/712,777 <b>Examiner</b>	SCHMIDT ET AL. Art Unit	
•		00.47	
	Ajay Vasudeva	3617	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm GHTS. This application is	in this application. If not included nunication will be mailed in due course. <b>TH</b>	
1. X This communication is responsive to the amendment filed :	<u>2/02/2009</u> .		
2. ☑ The allowed claim(s) is/are <u>51-64</u> .			
<ul> <li>3.</li></ul>		or (f).	
2.   Certified copies of the priority documents have	been received in Applicat	on No	
3. Copies of the certified copies of the priority do	cuments have been receive	ed in this national stage application from th	ie
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give			
5. X CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) $\square$ including changes required by the Notice of Draftspers	on's Patent Drawing Revie	ew ( PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
<ul><li>(b)   including changes required by the attached Examiner's Paper No./Mail Date 20090605.</li></ul>	s Amendment / Comment o	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the			
6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 ☐ Notice of I	nformal Patent Application	
Notice of Neterences Gred (110-032)     Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No	./Mail Date s Amendment/Comment	
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ☐ Examiner'	s Statement of Reasons for Allowance	
	9. 🗌 Other	<u> </u>	

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**EXAMINER'S AMENDMENT** 

1. An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr.

Kevin Jablonski on 6/04/2009.

2. The application has been amended as follows:

In the Specification (also see the Specification amendment filed 8/29/2005)

On page 1 (paragraph 0002)

On line 1, after "application is related to U.S. Patent App. Serial Nos. 10/712,987", --, now

US Patent No. 7,191,724, -- has been added.

• On line 3, after "and 10/712,786", ---, now US Patent No. 7,231,880, -- has been added.

In the Claims

Pending claims 3-8, 19-24, 28 and 31 have been canceled.

New claims 51-64 have been added, as follows:

Claim 51: A water vessel comprising:

a hull comprising struts;

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a top deck coupled to the hull, the top deck supported above a surface of water by the struts;

a bay disposed below the top deck and enclosed by the top deck and the struts, the bay being accessible via an opening defined by the hull;

a mission module detachably coupled to the hull within the bay, the mission module containing specialized equipment for performing a specific mission and configured to be coupled with one or more operational systems of the vessel to allow the vessel to use the specialized equipment, wherein when the mission module is coupled with said one or more operational systems of the vessel, the vessel is enabled to use the specialized equipment of the mission module to perform the specific mission, and wherein when the mission module is not coupled with said one or more systems of the vessel, the vessel is not enabled to use the specialized equipment of the mission module to perform the specific mission;

wherein the struts define a cavity through which water that supports the hull is allowed to flow beneath the mission module when the mission module is coupled to the vessel; and

wherein the bay further includes:

an interface capable of releasably coupling the specialized equipment of the mission module with said one or more operational systems of the vessel; and a mounting structure releasably holding the mission module in the bay, wherein the mission module is spaced above the surface of the water when the mission module is coupled with the interface of the bay.

52. The vessel of claim 51 wherein the interface is capable of facilitating the exchange of fuel between said one or more operational systems of the vessel and the mission module.

- 53. The vessel of claim 51 wherein the interface is capable of facilitating the exchange of water between said one or more operational systems of the vessel and the mission module.
- 54. The vessel of claim 51 wherein the interface is capable of facilitating the exchange of personnel between said one or more operational systems of the vessel and the mission module.
- 55. The vessel of claim 51 wherein the interface is capable of facilitating the exchange of electrical power between said one or more operational systems of the vessel and the mission module.
- 56. The vessel of claim 51 wherein the interface is capable of facilitating transmission of electronic communication signals between said one or more operational systems of the vessel and the mission module.
- 57. The vessel of claim 51 further comprises a foil-assisted hull.

The vessel of claim 51 wherein the mission module is configured for a single mission.

- 59. The vessel of claim 51 wherein the specialized equipment of the mission module is configured for performing one of the following missions: a mine hunting mission, an anti-submarine mission, a special operation mission, and an intelligence/surveillance/reconnaissance mission.
- 60. The vessel of claim 51 wherein the mission module contains all the specialized equipment for performing a specific mission.
- 61. The vessel of claim 51 wherein the mission module includes at least one of a weapons turret and an antenna, each mounted to the module's structure and exposed for use while the module is releasably held in the bay of the vessel.
- 62. The vessel of claim 51 further comprising a ramp capable of supporting the mission module as the module is moved into the bay.
- 63. The vessel of claim 51 wherein the vessel comprises a sailing ship.
- 64. The vessel of claim 51 further comprises a multihull.

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## Drawings

3. The drawings are objected to for the following reasons. Applicant is requested to make the recommended changes, as follows:

In the drawings (filed 1/25/2006 and 2/02/2009), figures 1-4 are not oriented in the same direction as figures 5a-5d. Therefore, Applicant is requested to file new formal drawing in which all figures are oriented in the same direction. Further, applicant is also requested to ensure that all reference numbers have uniform thickness and size. No new matter is permitted.

Note: Figures 3C and 3D (as shown in the drawings filed 1/25/2006) will be printed together on the front page of the published patent.

In order to avoid abandonment of the application, applicant must make these above requested drawing changes.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ajay Vasudeva whose telephone number is (571) 272-6689. The examiner can normally be reached on Monday-Friday 12:00 -- 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, S. Joe Morano can be reached on (571) 272-6684. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ajay Vasudeva/ Primary Examiner Art Unit 3617